

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Patentees : Adnan M. M. Mjalli et al.  
Patent No. : 7,423,177 B1  
Issued : September 9, 2008  
Title of Invention : CARBOXAMIDE DERIVATIVES AS  
THERAPEUTIC AGENTS

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**REQUEST FOR CERTIFICATE OF CORRECTION**  
**OF PATENT FOR USPTO MISTAKES AND APPLICANTS MISTAKES (37 C.F.R. §**  
**1.322 and 1.323)**

Dear Sir:

U.S. Patent Application Number 10/091,759, from which the above-referenced patent issued, was filed on March 5, 2002. This communication is being submitted to request Certificate of Correction under 37 C.F.R. § 1.322 and 1.323 be issued for the above-referenced U.S. Patent to correct errors made by the PTO and by the Applicant.

A fee in the amount of \$100 is paid to cover the filing fee for these corrections. The Commissioner is hereby authorized to charge any additional fees required by this action, or credit any overpayment, to Deposit Account No. 16-1435.

Attached is Form PTO/SB/44 stating the text of the corrections. The exact column and line numbers where the errors are in the patent and in the application as filed for the USPTO errors and applicant errors are enumerated below.

Applicant's Errors:

1. Under "FOREIGN PATENT DOCUMENTS"

<u>PATENT</u>	<u>APPLICATION</u>
a. Page 1, Right Column, Line 9	List of References cited by Applicant and Considered by Examiner – March 25, 2004 –

2. Under "DETAILED DESCRIPTION OF THE INVENTION"

<u>PATENT</u>	<u>APPLICATION</u>
a. Column 3, Line 25 (Approx.)	Page 4, Line 6
b. Column 4, Line 58 (Approx.)	Page 6, Line 30
c. Column 9, Line 34	Page 14, Line 5
d. Column 10, Line 32	Page 15, Line 6
e. Column 10, Line 52	Page 16, Line 2
f. Column 15, Line 21 (Approx.)	Page 22, Line 17 (Approx.)
g. Column 20, Line 2 (Example 5) (Table 1)	Page 26, Line 2 (Example 5) (Table 1)
h. Column 32, Line 3 (Example 26) (Table 1)	Page 30, Line 3 (Example 26) (Table 1)
i. Column 36, Line 22	Page 33, Line 27
j. Column 38, Line 22	Page 36, Line 7
k. Column 38, Line 62 (Approx.)	Page 36, Line 16
l. Column 38, Line 63	Page 36, Line 17
m. Column 39, Line 1	Page 37, Line 3
n. Column 40, Line 44 (Approx.)	Page 39, Line 6
o. Column 40, Line 50	Page 39, Line 10
p. Column 42, Line 46 (Approx.)	Page 41, Line 27
q. Column 44, Line 10	Page 44, Line 12
r. Column 44, Line 50 (Approx.)	Page 45, Line 4
s. Column 45, Line 3	Page 45, Line 19
t. Column 45, Line 10	Page 45, Line 24
u. Column 45, Line 58 (Approx.)	Page 46, Line 23
v. Column 48, Line 36	Page 50, Line 10
w. Column 49, Line 9	Page 51, Line 3
x. Column 49, Line 15 (Approx.)	Page 51, Line 9
y. Column 51, Line 35 (Approx.)	Page 53, Line 3
z. Column 52, Line 35 (Approx.)	Page 54, Line 3
aa. Column 52, Line 64	Page 54, Line 10
ab. Column 52, Line 67	Page 54, Line 13
ac. Column 53, Line 29	Page 54, Line 22
ad. Column 58, Line 42 (Approx.)	Page 59, Line 27
ae. Column 61, Line 1-2	Page 62, Line 10
af. Column 61, Line 33 (Approx.)	Page 62, Line 17

ag.	Column 64, Line 47	Page 65, Line 25
ah.	Column 66, Line 40	Page 69, Line 5
ai.	Column 67, Line 1	Page 69, Line 29
aj.	Column 68, Line 11	Page 71, Line 13
ak.	Column 72, Line 53	Page 78, Line 8

3. Under "CLAIMS"

<u>PATENT</u>	<u>APPLICATION</u>
a. Column 73, Line 15	Page 4 of 27 -- November 8, 2007 -- Claim 1, Line 5 (excluding structure)
b. Column 74, Line 53 (approx.)	Page 5 of 27 -- November 8, 2007 -- Claim 1, Line 14 (excluding structure)
c. Column 80, Line 17	Page 17 of 27 -- November 8, 2007 -- Claim 61, Line 13 (excluding structure)

PTO Errors:

1. Under "OTHER PUBLICATIONS"

<u>PATENT</u>	<u>APPLICATION</u>
a. Page 2, Left Column, Line 27	List of References cited by Applicant and Considered by Examiner—March 25, 2004-- Sheet 2 of 4--Entry 11 Line 1
b. Page 2, Right Column, Line 22	List of References cited by Applicant and Considered by Examiner—March 25, 2004 -- Sheet 4 of 4 -- Entry 1 Line 2
c. Page 2, Left Column, Line 29	List of References cited by Applicant and Considered by Examiner—March 25, 2004 -- Sheet 4 of 4 -- Entry 3 Line 3

2. Under "BACKGROUND OF THE INVENTION"

<u>PATENT</u>	<u>APPLICATION</u>
a. Column 1, Line 55	Page 2, Line 6
b. Column 1, Line 66	Page 2, Line 14
c. Column 2, Line 8	Page 2, Line 20
d. Column 2, Line 22	Page 2, Line 29
e. Column 2, Lines 27-28	Page 3, Line 1

3. Under "DETAILED DESCRIPTION OF THE INVENTION"

<u>PATENT</u>	<u>APPLICATION</u>
a. Column 3, Line 30 (Approx.)	Page 4, Line 9

b.	Column 3, Line 44 (Approx.)	Page 4, Line 17
c.	Column 5, Line 40	Page 8, Line 2
d.	Column 6, Line 44	Page 9, Line 16-17
e.	Column 9, Line 1	Page 13, Line 3
f.	Column 11, Line 24	Page 16, Line 33
g.	Column 13, Line 49	Page 20, Line 16
h.	Column 14, Line 18 (Approx.)	Page 21, Line 17
i.	Column 14, Line 30	Page 21, Line 22
j.	Column 16, Line 7	Page 24, Lines 12-13
k.	Column 16, Lines 11-15 (Approx.)	Page 24, Lines 14-15
l.	Column 27, Line 2 (Structure) (Example 20) (Table 1)	Page 29, Line 2 (Structure) (Example 20) (Table 1)
m.	Column 34, Lines 66-67	Page 31, Line 18
n.	Column 34, Line 67	Page 31, Line 18
o.	Column 35, Line 39 (Approx.)	Page 32, Line 25
p.	Column 36, Line 32 (Approx.)	Page 33, Line 36
q.	Column 36, Line 56 (Approx.)	Page 34, Line 17
r.	Column 38, Line 20 (Approx.)	Page 36, Line 5
s.	Column 40, Line 15 (Approx.)	Page 38, Line 15
t.	Column 40, Line 63 (Approx.) (Scheme 6)	Page 39, Line 17 (Approx.) (Scheme 6)
u.	Column 40, Line 65 (Approx.) (Scheme 6)	Page 39, Line 18 (Approx.) (Scheme 6)
v.	Column 45, Line 6	Page 45, Line 22
w.	Column 45, Line 10	Page 45, Line 24
x.	Column 45, Line 52	Page 46, Line 19
y.	Column 46, Line 19	Page 47, Line 20
z.	Column 46, Line 38	Page 47, Line 35
aa.	Column 47, Line 8 (Approx.)	Page 48, Line 11
ab.	Column 47, Line 63	Page 49, Line 12
ac.	Column 47, Line 67	Page 49, Line 15
ad.	Column 48, Line 15-22 (Approx.)	Page 49, Lines 24-25 (Approx.)
ae.	Column 48, Line 23	Page 50, Line 1
af.	Column 48, Line 62	Page 50, Line 22
ag.	Column 49, Line 9	Page 51, Line 3
ah.	Column 49, Lines 37-38 (Approx.)	Page 51, Line 15
ai.	Column 49, Line 39	Page 51, Line 15
aj.	Column 49, Line 45	Page 51, Line 19
ak.	Column 49, Line 51	Page 51, Line 23
al.	Column 51, Line 1	Page 52, Line 9
am.	Column 51, Line 3	Page 52, Line 10
an.	Column 51, Line 8	Page 52, Line 3
ao.	Column 51, Line 14 (Approx.)	Page 52, Line 17
ap.	Column 52, Line 7	Page 53, Line 13
aq.	Column 52, Line 66	Page 54, Line 13
ar.	Column 53, Lines 27-28	Page 54, Line 21

as.	Column 53, Line 31	Page 55, Line 2
at.	Column 53, Line 63	Page 55, Line 10
au.	Column 53, Line 67	Page 55, Line 13
av.	Column 54, Line 31 (Approx.)	Page 55, Line 20
aw.	Column 54, Lines 33-34	Page 56, Line 1
ax.	Column 55, Line 34	Page 57, Line 3
ay.	Column 55, Line 36	Page 57, Line 4
az.	Column 55, Line 37	Page 57, Line 5
ba.	Column 55, Line 41	Page 57, Line 8
bb.	Column 56, Line 44 (Approx.)	Page 58, Lines 17-18
bc.	Column 56, Line 47	Page 58, Line 20
bd.	Column 57, Line 19	Page 58, Line 27
be.	Column 58, Line 50 (Approx.)	Page 60, Line 2
bf.	Column 59, Line 2	Page 60, Line 9
bg.	Column 59, Line 3	Page 60, Line 9
bh.	Column 59, Lines 34-35 (Approx.)	Page 60, Line 24
bi.	Column 59, Line 47	Page 61, Line 8
bj.	Column 60, Line 2	Page 61, Line 16
bk.	Column 60, Line 39 (Approx.)	Page 61, Line 24 (Approx.)
bl.	Column 60, Line 66 (Approx.)	Page 62, Line 7
bm.	Column 61, Line 35	Page 62, Line 18
bn.	Column 62, Line 35	Page 63, Line 6
bo.	Column 62, Line 67	Page 63, Line 17
bp.	Column 63, Line 42 (Approx.)	Page 64, Lines 17-18
bq.	Column 63, Line 45 (Approx.)	Page 64, Line 20
br.	Column 64, Line 2	Page 65, Line 3 (Approx.)
bs.	Column 64, Line 29 (Approx.)	Page 65, Line 16
bt.	Column 64, Line 36 (Approx.)	Page 65, Line 20
bu.	Column 64, Line 53	Page 66, Line 3
bv.	Column 67, Line 6	Page 69, Line 32
bw.	Column 67, Line 11	Page 69, Line 35
bx.	Column 67, Line 51	Page 70, Line 28
by.	Column 67, Line 52	Page 70, Line 29
bz.	Column 67, Line 62	Page 70, Line 36
ca.	Column 68, Line 56	Page 72, Line 13
cb.	Column 70, Line 3	Page 74, Line 7
cc.	Column 70, Line 37	Page 74, Line 34
cd.	Column 71, Line 67	Page 77, Line 1

## 4. Under "CLAIMS"

PATENT	APPLICATION
a. Column 74, Line 14	Page 4 of 27 – November 8, 2007 – Claim 1, Line 4 (Excluding structure)
b. Column 74, Lines 15	Page 4 of 27 – November 8, 2007 – Claim 1, Line 5 (Excluding structure)
c. Column 74, Line 53 (Approx.)	Page 5, of 27 – November 8, 2007 – Claim 1, Line 14 (Excluding structure)
d. Column 75, Line 46	Page 7 of 27 – November 8, 2007 – Claim 1, Line 1 (Excluding structure)
e. Column 75, Line 52	Page 7 of 27 – November 8, 2007 – Claim 1, Line 6 (Excluding structure)
f. Column 76, Line 9 (Approx.)	Page 7 of 27 – November 8, 2007 – Claim 1, Line 12 (Excluding structure)
g. Column 76, Line 39	Page 8 of 27 – November 8, 2007 – Claim 1, Line 14 (Excluding structure)
h. Column 76, Line 41	Page 8 of 27 – November 8, 2007 – Claim 1, Line 16 (Excluding structure)
i. Column 76, Line 41	Page 8 of 27 – November 8, 2007 – Claim 1, Line 17 (Excluding structure)
j. Column 77, Line 1	Page 9 of 27 – November 8, 2007 – Claim 1, Line 6 (Excluding structure)
k. Column 77, Line 2	Page 9 of 27 – November 8, 2007 – Claim 1, Line 7 (Excluding structure)
l. Column 77, Line 2	Page 9 of 27 – November 8, 2007 – Claim 1, Line 7 (Excluding structure)
m. Column 77, Line 13 (Approx.)	Page 9 of 27 – November 8, 2007 – Claim 4, Line 3 (Excluding structure)
n. Column 78, Line 16	Page 12 of 27 – November 8, 2007 – Claim 11, Line 2
o. Column 78, Lines 21-22 (Approx.)	Page 13 of 27 – November 8, 2007 – Claim 41, Line 3
p. Column 78, Line 26	Page 13 of 27 – November 8, 2007 – Claim 43, Line 2
q. Column 78, Line 30	Page 13 of 27 – November 8, 2007 – Claim 44, Line 2
r. Column 78, Line 34	Page 13 of 27 – November 8, 2007 – Claim 45, Line 2
s. Column 78, Line 51	Page 14 of 27 – November 8, 2007 – Claim 48, Line 2
t. Column 79, Line 4	Page 15 of 27 – November 8, 2007 – Claim 52, Line 1

u.	Column 79, Line 11	Page 15 of 27 – November 8, 2007 – Claim 53, Line 1
v.	Column 79, Line 13	Page 15 of 27 – November 8, 2007 – Claim 54, Line 1
w.	Column 79, Line 14	Page 15 of 27 – November 8, 2007 – Claim 54, Line 2
x.	Column 79, Line 15	Page 15 of 27 – November 8, 2007 – Claim 55, Line 1
y.	Column 79, Line 16	Page 15 of 27 – November 8, 2007 – Claim 55, Line 2
z.	Column 79, Line 17	Page 15 of 27 – November 8, 2007 – Claim 56, Line 1
aa.	Column 79, Line 18	Page 15 of 27 – November 8, 2007 – Claim 56, Line 2
ab.	Column 79, Line 19	Page 15 of 27 – November 8, 2007 – Claim 57, Line 1
ac.	Column 79, Line 20	Page 15 of 27 – November 8, 2007 – Claim 57, Line 2
ad.	Column 79, Line 21	Page 15 of 27 – November 8, 2007 – Claim 58, Line 1
ae.	Column 79, Line 22	Page 15 of 27 – November 8, 2007 – Claim 58, Line 2
af.	Column 79, Line 23	Page 15 of 27 – November 8, 2007 – Claim 59, Line 1
ag.	Column 79, Line 25	Page 16 of 27 – November 8, 2007 – Claim 60, Line 1
ah.	Column 79, Line 27	Page 16 of 27 – November 8, 2007 – Claim 61, Line 1
ai.	Column 80, Line 17	Page 17 of 27 – November 8, 2007 – Claim 61, Line 13 (Excluding structures)
aj.	Column 80, Line 19 (Approx.)	Page 17 of 27 – November 8, 2007 – Claim 61, Line 15 (Excluding structures)
ak.	Column 80, Line 38	Page 18 of 27 – November 8, 2007 – Claim 61, Line 1 (Excluding structures)
al.	Column 80, Line 43	Page 18 of 27 – November 8, 2007 – Claim 61, Line 5 (Excluding structures)
am.	Column 80, Line 44	Page 18 of 27 – November 8, 2007 – Claim 61, Line 6 (Excluding structures)
an.	Column 82, Line 1	Page 20 of 27 – November 8, 2007 – Claim 61, Line 14 (Excluding structures)
ao.	Column 82, Line 3	Page 20 of 27 – November 8, 2007 – Claim 61, Line 16 (Excluding structures)
ap.	Column 82, Line 5	Page 20 of 27 – November 8, 2007 – Claim 61, Line 17 (Excluding structures)

aq.	Column 82, Line 34	Page 21 of 27 – November 8, 2007 – Claim 61, Line 6 (Excluding structures)
ar.	Column 82, Line 36	Page 21 of 27 – November 8, 2007 – Claim 62, Line 1
as.	Column 83, Line 38	Page 23 of 27 – November 8, 2007 – Claim 62, Line 5
at.	Column 83, Line 62 (Approx.)	Page 23 of 27 – November 8, 2007 – Claim 62, Line 18 (Excluding structures)
au.	Column 84, Line 25	Page 24 of 27 – November 8, 2007 – Claim 62, Line 9 (Excluding structures)

Please direct any questions regarding this request, and send the Certificate of Correction, to the undersigned.

Respectfully submitted,

Date: April 13, 2007

Ben Schroeder  
T. Benjamin Schroeder (Reg. 50,990)

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Winston-Salem, NC 27101  
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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,423,177 B2

Page 1 of 12

APPLICATION NO. : 10/091,759

ISSUE DATE : September 9, 2008

INVENTOR(S) : Adnan M. M. Mjalli et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Face page, under Foreign Patent Documents, please delete "WO 9739125," please insert -- WO 97/39125 --.

Page 2, Column 1, line 27, under Other Publications, please delete "Avanced", please insert -- Advanced --.

Page 2, Column 2, line 22, under Other Publications, please delete "Therpy", please insert -- Therapy --.

Page 2, Column 2, line 29, under Other Publications, please delete "Factor<sub>k</sub>B", please insert -- Factor-<sub>k</sub>B --.

Column 1, line 55, please delete "immunoglobulintype", please insert -- immunoglobulin-type --.

Column 1, line 66, please delete "(Schleicheret al.,", please insert -- (Schleicher et al., --.

Column 2, line 8, please delete "Invest", please insert -- Invest. --.

Column 2, line 22, please delete "Hofmann", please insert -- (Hofmann --.

Column 2, line 27-28, please delete "ENRAGE," please insert -- EN-RAGE, --.

Column 3, line 25 (approx.), After "hydrogen" please insert -- ; --.

Column 3, line 30 (approx.), After "alkylaryl" please insert -- ; --.

Column 3, line 44 (approx.), please delete "-C<sub>1-6</sub>", please insert ---C<sub>1-6</sub> --.

Column 4, line 58 (approx.), please delete "CH<sub>2</sub>," please insert ---CH<sub>2</sub>, --.

Column 5, line 40, please delete "-NHCON(H)," please insert ---NHCON(H)-, --.

Column 6, line 44, please delete "NHSO<sub>2</sub>," please insert -- -NHSO<sub>2</sub>, --.

Column 9, line 1, please delete "R<sub>17</sub>", please insert -- R<sub>17</sub>, --.

Column 9, line 34, please delete "R<sub>6</sub>may", please insert -- R<sub>6</sub> may --.

Column 10, line 32, After "-H" please insert -- ; --.

Column 10, line 52, After "-H" please insert -- ; --.

# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

PATENT NO : 7,423,177 B2

Page 2 of 12

APPLICATION NO. : 10/091,759

ISSUE DATE : September 9, 2008

INVENTOR(S) : Adnan M. M. Mjalli et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Column 11, line 24, please delete "R<sub>36</sub>", please insert -- R<sub>36</sub>, --.

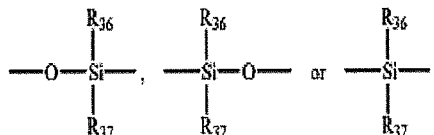
Column 13, line 49, please delete "X)", please insert -- x) --.

Column 14, line 18 (approx.), please delete "-NHCON(H)", please insert -- -NHCON(H)-, --.

Column 14, line 30, please delete "C<sub>1-6</sub>", please insert -- C<sub>1</sub>-C<sub>6</sub> --.

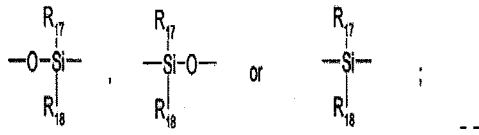
Column 15, line 21 (approx.), please delete "CH<sub>2</sub>," please insert -- -CH<sub>2</sub>-, --.

Column 16, line 7, please delete "NHSO<sub>2</sub>," please insert -- -NHSO<sub>2</sub>-, --.



Column 16, lines 11-15 (approx.), please delete "

please insert --



Column 20, line 2 (Example 5) (Table 1), please delete "2,4-Di(3-diethylamino-1-",  
please insert -- 2,4-Di-(3-diethylamino-1- --.

Column 27, line 2 (Structure) (Example 20) (Table 1), please delete "NH<sub>2</sub>", please insert -- NH --.

## UNITED STATES PATENT AND TRADEMARK OFFICE

### CERTIFICATE OF CORRECTION

PATENT NO : 7,423,177 B2

Page 3 of 12

APPLICATION NO. : 10/091,759

ISSUE DATE : September 9, 2008

INVENTOR(S) : Adnan M. M. Mjalli et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Column 32, line 3 (Example 26) (Table 1), please delete "fluorenylmethoxycarbonyamino)", please insert - -fluorenylmethoxycarbonylamino) - -.

Column 34, line 66-67, please delete "anti psychotics," please insert - - antipsychotics, - -.

Column 34, line 67, please delete "anti depressants," please insert - - antidepressants, - -.

Column 35, line 39 (approx.), please delete "Alzheimers", please insert - - Alzheimer's - -.

Column 36, line 22, please delete "ispropyloxy", please insert - - isopropoxy - -.

Column 36, line 32 (approx.), please delete "inline", please insert - - in-line - -.

Column 36, line 56 (approx.), please delete "acyamino", please insert - - acylamino - -.

Column 38, line 20 (approx.), please delete "tertbutoxycarbonyl", please insert - - tert-butoxycarbonyl, - -.

Column 38, line 22, please delete "proptecting", please insert - - protecting - -.

Column 38, line 62 (approx.), please delete "equivalent", please insert - - equivalent - -.

Column 38, line 63, After "is" please delete "is".

Column 39, line 1, After "is" please delete "is".

Column 40, line 15 (approx.), please delete "duisopropyl", please insert - - diisopropyl - -.

Column 40, line 44 (approx.), before "acid" please delete "a", please insert - - an - -.

Column 40, line 50, before "tertiary" please delete "an", please insert - - a - -.

Column 40, line 63 (approx.)(Scheme 6), please delete "(R<sub>48</sub>", please insert - - R<sub>48</sub> - -.

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,423,177 B2

Page 4 of 12

APPLICATION NO. : 10/091,759

ISSUE DATE : September 9, 2008

INVENTOR(S) : Adnan M. M. Mjalli et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Column 40, line 65 (approx.)(Scheme 6), please delete "(R<sub>48</sub>", please insert -- R<sub>48</sub> --.

Column 42, line 46 (approx.), please delete "dimethypropylene", please insert -- dimethylpropylene --.

Column 44, line 10, please delete "complete ty", please insert -- completely by --.

Column 44, line 50 (approx.), after "and the" please delete "the".

Column 45, line 3, after "water and" please delete "and".

Column 45, line 6, please delete "Azodicarboxyate", please insert -- Azodicarboxylate --.

Column 45, line 10, please delete "duisopropyl", please insert -- diisopropyl --.

Column 45, line 10, please delete "azodicaroxylate", please insert -- azodicarboxylate --.

Column 45, line 52, please delete "with 1 N HCl", please insert -- 1 N HCl --.

Column 45, line 58 (approx.), after "(2.6 g)" please insert -- . --.

Column 46, line 19, please delete "SnCl<sub>2</sub>H<sub>2</sub>O", please insert -- SnCl<sub>2</sub>H<sub>2</sub>O --.

Column 46, line 38, please delete "Amideas", please insert -- Amide as --.

Column 47, line 8 (approx.), please delete "Acid<sub>2,4</sub>-", please insert -- Acid 2,4- --.

Column 47, line 63, please delete "Na<sub>2</sub>SO<sub>4</sub>.", please insert -- Na<sub>2</sub>SO<sub>4</sub> --.

Column 47, line 67, please delete "Tr", please insert -- T<sub>r</sub> --.

**UNITED STATES PATENT AND TRADEMARK OFFICE**  
**CERTIFICATE OF CORRECTION**

““”

PATENT NO : 7,423,177 B2

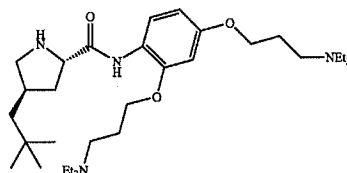
Page 5 of 12

APPLICATION NO. : 10/091,759

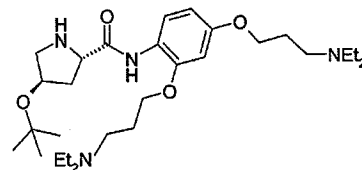
ISSUE DATE : September 9, 2008

INVENTOR(S) : Adnan M. M. Mjalli et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:



Column 48, lines 15-22 (approx.), please delete “



please insert - -

--.

Column 48, line 23, please delete “4R)-4tert-butoxy-1 -(9-“, please insert - - 4R)-4-tert-butoxy-1-(9- - -.

Column 48, line 36, after “(M+H)+”, please insert - - . - -.

Column 48, line 62, please delete “2-butoxy4-“, please insert - - 2-butoxy-4- - -.

Column 49, line 9, please delete “Tr”, please insert - - T, - -.

Column 49, line 9, after “(M+H)”, please insert - - . - -.

Column 49, line 15 (approx.), after “according”, please insert - - to - -.

Column 49, line 37-38 (approx.), please delete “triethylamime”, please insert - - triethylamine - -.

Column 49, line 39, please delete “butoxyan iline”, please insert - - butoxyaniline - -.

## UNITED STATES PATENT AND TRADEMARK OFFICE

### CERTIFICATE OF CORRECTION

PATENT NO : 7,423,177 B2

Page 6 of 12

APPLICATION NO. : 10/091,759

ISSUE DATE : September 9, 2008

INVENTOR(S) : Adnan M. M. Mjalli et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Column 49, line 45, please delete "Tr", please insert -- T<sub>r</sub> --.

Column 49, line 51, please delete "Tr", please insert -- T<sub>r</sub> --.

Column 51, line 1, please delete "3-(9fluorenylmethoxycarbonylamino)",  
please insert -- 3-(9-fluorenylmethoxycarbonylamino) --.

Column 51, line 3, please delete "end", please insert -- and --.

Column 51, line 7, please delete "Tr", please insert -- T<sub>r</sub> --.

Column 51, line 14 (approx.), please delete "anline", please insert -- aniline --.

Column 51, line 35 (approx.), after "(M+H)<sup>+</sup>", please insert -- . . . .

Column 52, line 7, please delete "Tr", please insert -- T<sub>r</sub> --.

Column 52, line 35 (approx.), after "(M+H)<sup>+</sup>", please insert -- . . . .

Column 52, line 64, before "vacuo" please delete "removed in".

Column 52, line 66, please delete "Tr", please insert -- T<sub>r</sub> --.

Column 52, line 67, after "(M+H)<sup>+</sup>" please insert -- . . . .

Column 53, line 27-28, please delete "butyldimethylsilyl", please insert -- butyldimethylsilyl --.

Column 53, line 29, please delete "accroding", please insert -- according --.

Column 53, line 31, please delete "Tr", please insert -- T<sub>r</sub> --.

Column 53, line 63, please delete "butyldimethylsilyl", please insert -- butyldimethylsilyl --.

Column 53, line 67, please delete "Tr", please insert -- T<sub>r</sub> --.

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,423,177 B2

Page 7 of 12

APPLICATION NO. : 10/091,759

ISSUE DATE : September 9, 2008

INVENTOR(S) : Adnan M. M. Mjalli et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Column 54, line 31 (approx.), please delete "butydimethylsilyl", please insert -- butyldimethylsilyl --.

Column 54, lines 33-34, please delete "butydimethylsilyl", please insert -- butyldimethylsilyl --.

Column 55, line 34, please delete "butydimethylsilyl", please insert -- butyldimethylsilyl --.

Column 55, line 36, please delete "butydimethylsil", please insert -- butyldimethylsilyl --.

Column 55, line 37, please delete "NBoc-", please insert -- N-Boc- --.

Column 55, line 41, please delete "Tr", please insert -- T<sub>r</sub> --.

Column 56, line 44 (approx.), please delete "Boc-Tyr(Bzl-OH)", please insert -- Boc-Tyr(Bzl)-OH --.

Column 56, line 47 (approx.), please delete "Tr", please insert -- T<sub>r</sub> --.

Column 57, line 19 (approx.), please delete "Tr", please insert -- T<sub>r</sub> --.

Column 58, line 42 (approx.), after "agent," please delete "The", please insert -- the --.

Column 58, line 49 (approx.), please delete "Tr", please insert -- T<sub>r</sub> --.

Column 59, line 2, please delete "Tr", please insert -- T<sub>r</sub> --.

Column 59, line 3, please delete "(M+H)<sup>+</sup>", please insert -- (M+H)<sup>+</sup> --.

Column 59, lines 34-35 (approx.), please delete "2-butoxy4-", please insert -- 2-butoxy-4- --.

Column 59, line 47 (approx.), please delete "Tr", please insert -- T<sub>r</sub> --.

Column 60, line 2, please delete "Tr", please insert -- T<sub>r</sub> --.

Column 60, line 49 (approx.), please delete "Tr", please insert -- T<sub>r</sub> --.

Column 60, line 66 (approx.), please delete "Tr", please insert -- T<sub>r</sub> --.

## UNITED STATES PATENT AND TRADEMARK OFFICE

### CERTIFICATE OF CORRECTION

PATENT NO : 7,423,177 B2

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APPLICATION NO. : 10/091,759

ISSUE DATE : September 9, 2008

INVENTOR(S) : Adnan M. M. Mjalli et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Column 61, lines 1-2, please delete "(9-fluorenylmethoxycarbonylamino)",  
please insert -- (9-fluorenylmethoxycarbonylamino) --.

Column 61, line 33 (approx.), after "Na<sub>2</sub>SO<sub>4</sub>.", please delete "the", please insert -- The --.

Column 61, line 35 (approx.), please delete "Tr", please insert -- T<sub>r</sub> --.

Column 62, line 35 (approx.), please delete "Tr", please insert -- T<sub>r</sub> --.

Column 62, line 67 (approx.), please delete "Tr", please insert -- T<sub>r</sub> --.

Column 63, line 42 (approx.), please delete "(3-N-Boc-piperidinyl-OH)",  
please insert -- (3-N-Boc-piperidinyl)-OH --.

Column 63, line 45, please delete "Tr", please insert -- T<sub>r</sub> --.

Column 64, line 2, please delete "Tr", please insert -- T<sub>r</sub> --.

Column 64, line 29 (approx.), please delete "(400 uL/well)", please insert -- (400 μL/well) --.

Column 64, line 36 (approx.), please delete "SRAGE", please insert -- sRAGE --.

Column 64, line 47, please delete "Sterptavidin", please insert -- Streptavidin --.

Column 64, line 53, please delete "Ca<sub>2</sub>Cl<sub>2</sub>.", please insert -- CaCl<sub>2</sub> --.

Column 66, line 40, please delete "alchol.", please insert -- alcohol. --.

Column 67, line 1, please delete "injectible", please insert -- injectable --.

Column 67, line 6, please delete "nontoxic", please insert -- non-toxic --.

Column 67, line 11, after "medium" please insert -- . --.

Column 67, line 51, please delete "Nmethylglucamine,", please insert -- N-methylglucamine, --.



## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,423,177 B2

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APPLICATION NO. : 10/091,759

ISSUE DATE : September 9, 2008

INVENTOR(S) : Adnan M. M. Mjalli et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Column 67, line 52, please delete "Phosphateldiphosphate," please insert - - Phosphate/diphosphate, - -.

Column 67, line 62, please delete "oxiate," please insert - - oxalate, - -.

Column 68, line 11, please delete "therof," please insert - - thereof, - -.

Column 68, line 56, please delete "overtime", please insert - - over time - -.

Column 70, line 3, please delete "et at.," please insert - - et al., - -.

Column 70, line 37, please delete "Stem," please insert - - Stern, - -.

Column 71, line 67, please delete "Mefformin", please insert - - Metformin - -.

Column 72, line 53, please delete "therof," please insert - - thereof, - -.

Column 73, line 15, In Claim 1, after "hydrogen", please insert - - ; - -.

Column 74, line 14, In Claim 1, after "-hydrogen", please insert - - ; - -.

Column 74, line 15, In Claim 1, please delete "ii", please insert - - ii) - -.

Column 74, line 53 (approx.), In Claim 1, please delete "comprises", please insert - - is - -.

Column 74, line 53 (approx.), In Claim 1, please delete "CH<sub>2</sub>-", please insert - - -CH<sub>2</sub>-, - -.

Column 75, line 46, In Claim 1, after "independently" please insert - - selected - -.

Column 75, line 52, In Claim 1, after "independently" please insert - - selected - -.

Column 76, line 9 (approx.), In Claim 1, after "independently" please insert - - selected - -.

Column 76, line 39, In Claim 1, please delete "R<sub>17</sub>", please insert - - R<sub>17</sub>, - -.

Column 76, line 41, In Claim 1, please delete "or C<sub>1-6</sub>", please insert - - C<sub>1</sub>-C<sub>6</sub> - -.

## UNITED STATES PATENT AND TRADEMARK OFFICE

### CERTIFICATE OF CORRECTION

PATENT NO : 7,423,177 B2

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APPLICATION NO. : 10/091,759

ISSUE DATE : September 9, 2008

INVENTOR(S) : Adnan M. M. Mjalli et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Column 76, line 41, In Claim 1, please delete "or", please insert -- and --.

Column 77, line 1, In Claim 1, after "the" please insert -- group --.

Column 77, line 2, In Claim 1, please delete "C<sub>1</sub>-C alkyl", please insert -- and C<sub>1</sub>-C<sub>6</sub> alkyl, --.

Column 77, line 2, In Claim 1, please delete "alkyl", please insert -- alkylaryl, --.

Column 77, line 13 (approx.), In Claim 2, after "wherein" please insert -- , --.

Column 78, line 16, In Claim 4, please delete "2,4Di-", please insert -- 2,4-Di- --.

Column 78, lines 21-22 (approx.), In Claim 5, please delete "pharmaceutical", please insert -- pharmaceutically --.

Column 78, line 26, In Claim 7, please delete "compositions", please insert -- composition --.

Column 78, line 30, In Claim 8, please delete "compositions", please insert -- composition --.

Column 78, line 34, In Claim 9, please delete "compositions", please insert -- composition --.

Column 78, line 51, In Claim 12, please delete "ENRAGE,", please insert -- EN-RAGE, --.

Column 79, line 4, In Claim 16, please delete "claim 14, wherein therapeutic agents selected", please insert -- claim 15, wherein the therapeutic agents are selected- --.

Column 79, line 11, In Claim 17, after "method" please insert -- of --.

Column 79, line 13, In Claim 18, after "method" please insert -- of --.

Column 79, line 14, In Claim 18, please delete "comprising", please insert -- comprises --.

Column 79, line 15, In Claim 19, after "method" please insert -- of --.

Column 79, line 16, In Claim 19, please delete "comprising", please insert -- comprises --.

Column 79, line 17, In Claim 20, after "method" please insert -- of --.

## UNITED STATES PATENT AND TRADEMARK OFFICE

### CERTIFICATE OF CORRECTION

PATENT NO : 7,423,177 B2

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APPLICATION NO. : 10/091,759

ISSUE DATE : September 9, 2008

INVENTOR(S) : Adnan M. M. Mjalli et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Column 79, line 18, In Claim 20, please delete "comprising", please insert -- comprises --.

Column 79, line 19, In Claim 21, after "method" please insert -- of --.

Column 79, line 20, In Claim 21, please delete "comprising", please insert -- comprises --.

Column 79, line 21, In Claim 22, after "method" please insert -- of --.

Column 79, line 22, In Claim 22, please delete "comprising", please insert -- comprises --.

Column 79, line 23, In Claim 23, after "method" please insert -- of --.

Column 79, line 25, In Claim 24, after "method" please insert -- of --.

Column 79, line 27, In Claim 25, please delete "formula", please insert -- Formula --.

Column 80, line 17, In Claim 25, please delete "comprises", please insert -- is --.

Column 80, line 17, In Claim 25, please delete "CH<sub>2</sub>-", please insert -- -CH<sub>2</sub>- --.

Column 80, line 19 (approx.), In Claim 25, please delete "NHCON(H)-", please insert -- -NHCON(H)- --.

Column 80, line 38, In Claim 25, please delete "comprises", please insert -- is --.

Column 80, line 43, In Claim 25, please delete "-aryl; or", please insert -- -C<sub>1-6</sub>alkylaryl; or --.

Column 80, line 44, In Claim 25, please delete "-C<sub>1-6</sub>alkylaryl; and", please insert -- -C<sub>1-6</sub>alkoxyaryl; and --.

Column 82, line 1, In Claim 25, please delete "R<sub>17</sub>", please insert -- R<sub>17</sub>, --.

Column 82, line 3, In Claim 25, please delete "C<sub>1-6</sub>", please insert -- C<sub>1</sub>-C<sub>6</sub> --.

Column 82, line 5, In Claim 25, please delete "or", please insert -- and --.

Column 82, line 34, In Claim 25, after "the" please insert -- group --.

Column 82, line 36, In Claim 26, please delete "formula", please insert -- Formula --.

## UNITED STATES PATENT AND TRADEMARK OFFICE

### CERTIFICATE OF CORRECTION

PATENT NO : 7,423,177 B2

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APPLICATION NO. : 10/091,759

ISSUE DATE : September 9, 2008

INVENTOR(S) : Adnan M. M. Mjalli et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Column 83, line 38, In Claim 26, please delete "<sub>12</sub>", please insert -- R<sub>12</sub>, --.

Column 83, line 62 (approx.), In Claim 26, please delete "R<sub>17</sub>", please insert -- R<sub>17</sub>, --.

Column 84, line 25, In Claim 26, after "the" please insert -- group --.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

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This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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